

Human	1	M I I Y R D L I S H D E M F S D I Y K I R E I A D G L C L E V E G K M V S R T E G N I D D S L I G G	50
Rabbit (98%)	1	M I I Y R D L I S H D E M F S D I Y K I R E I A D G L C L E V E G K M V S R T E G N I D D S L I G G	50
Mouse (95%)	1	M I I Y R D L I S H D E M F S D I Y K I R E I A D G L C L E V E G K M V S R T E G N I D D S L I G G	50
Chicken (90%)	1	M I I Y R D L I S H D E M F S D I Y K I R E I A D G L C L E V E G K M V S R T E G N I D D S L I G G	50
D. melanogaster (50%)	1	M K I Y K D I T G D E M F A D T Y K K - - - D D D I V E V Y G K L I R G G D D I - - K L E G A	47
C. elegans (40%)	1	M L I Y K D I S D D E S S O S F P M K - - L V D D L V Y E F K G K H V V R K E G E I - - V L A G S	47
S. cerevisiae (42%)	1	M I I Y K D I F S H D E L S D A Y D A K - - L V D D D I V E A D G A M V N V G G D N I D - - I G A	46
Rice (36%)	1	M I I Y Q D L I G D E L G D E L S D S P P V K E T E N G L G V E V D G R K M V V Q G A S D D - - I G A	47
Human	51	N A S A E - G P - E G E G T E S T V I T G V D I V M N H H L Q E T S - - F T K E A - - Y K K Y I K D Y M K S I K	100
Rabbit	51	N A S A E - G P - E G E G T E S T V I T G V D I V M N H H L Q E T S - - F T K E A - - Y K K Y I K D Y M K S I K	100
Mouse	51	N A S A E - G P - E G E G T E S T V I T G V D I V M N H H L Q E T S - - F T K E A - - Y K K Y I K D Y M K S I K	100
Chicken	51	N A S A E - G P - E G E G T E S T V I T G V D I V M N H H L Q E T S - - F T K E A - - Y K K Y I K D Y M K S I K	100
D. melanogaster	48	N A S A E A D - E G - - T D I T S E S G V D I V N H R L T E C F - - F G D K K S - - Y T L Y K D Y M K K V L	98
C. elegans	48	N S A E E G E D - G D E H V E R G Q D I V N H K L V E M N C Y E D A S M - - F K A Y I K K F M K N V I	100
S. cerevisiae	47	N S A E - G C - D D D V E E G A E M V N - - N V N H F R L Q G T A - - F D K K S - - F L T Y I K G Y M K A V K	95
Rice	48	N S A E - G G G D D E G V D D Q A K V V D I V D T F R L Q E Q P P F D K K Q - - F V T F K R Y I K K L S	99
Human	101	G K L E E Q R P E R - - V K P F M T G A A E Q I K H I L A - - N F K N Y Q F F I G E N M - - N P D G M V A L L D	150
Rabbit	101	G K L E E Q R P E R - - V K P F M T G A A E Q I K H I L A - - N F K N Y Q F F I G E N M - - N P D G M V A L L D	150
Mouse	101	G K L E E Q R P E R - - V K P F M T G A A E Q I K H I L A - - N F K N Y Q F F I G E N M - - N P D G M V A L L D	150
Chicken	101	G K L E E Q R P E R - - V K P F M T G A A E Q I K H I L A - - N F K N Y Q F F I G E N M - - N P D G M V A L L D	150
D. melanogaster	99	A K L E E K S P P Q - - V D I F K T M N K A M K D I L G - - R F K E L Q F F I G E N M - - D D G M V A L L D	148
C. elegans	101	D M E K N R D K A D V D A F K K K Q G W V S L A K D R F K N L A F F I G E R A E G A E N G Q V A I I E	157
S. cerevisiae	96	A K L Q E T N P E E - - V P R F E K G A Q T Y K K I I G - - S P K D W E F F T I G E M - - D P D A M V V L N	145
Rice	100	A K L D A E K Q E E - - F K K N I E G A T - - K Y L L G - - K L K D L Q F F I G E M - - H D D G G L V A Y	146
Human	151	Y R E - D G V - T P Y M I F F K D G L E M E K C (NP 003285)	172
Rabbit	151	Y R E - D G V - T P F M I F F K D G L E M E K C (CAA 12650)	172
Mouse	151	Y R E - D G V - T P F M I F F K D G L E M E K C (P 14701)	172
Chicken	151	Y R E - D G V - T P Y M I F F K D G L E M E K C (P 43347)	172
D. melanogaster	149	Y R E I N G D S V P V L I F F K H G L E E E K C (AE003690)	172
C. elegans	158	Y R D V D G T E V P T M L Y K E A I I E E K C (Z79754)	182
S. cerevisiae	146	Y R E - D G T - T P F Y I W K H G V E E K - (P 35691)	166
Rice	147	Y K D - G A T - D P T F L Y F S H G L K E V K C (P 35681)	168

FIG. 1A

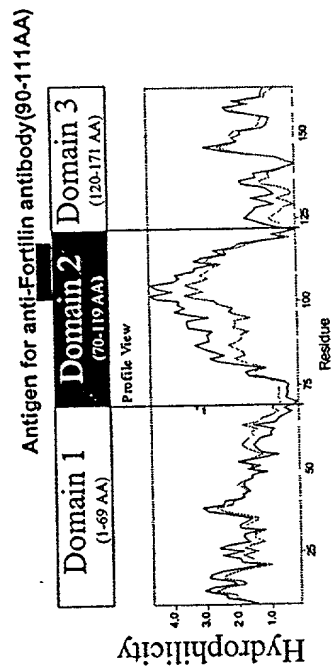


FIG. 1B

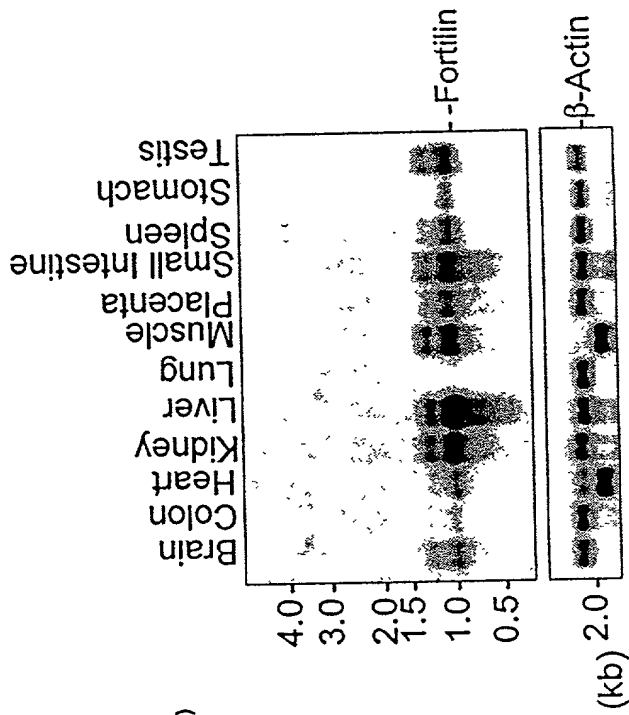


FIG. 1C

FIG. 2A

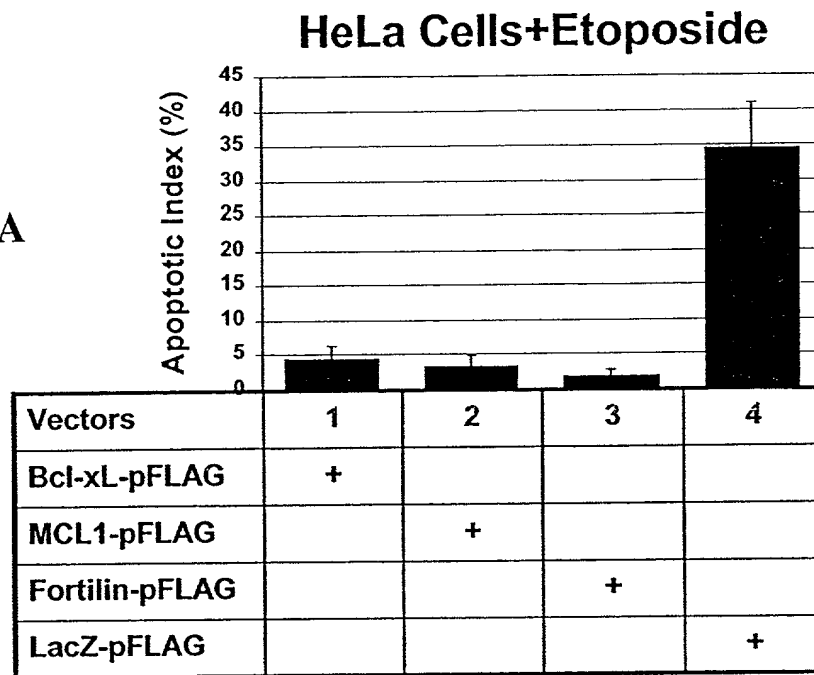
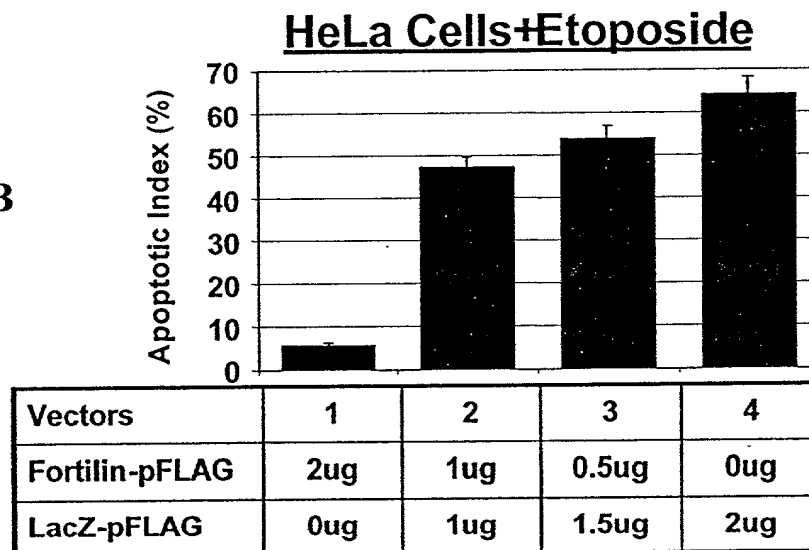


FIG. 2B



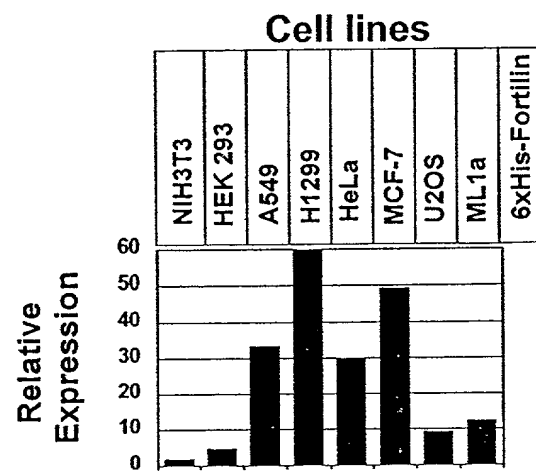


FIG. 3

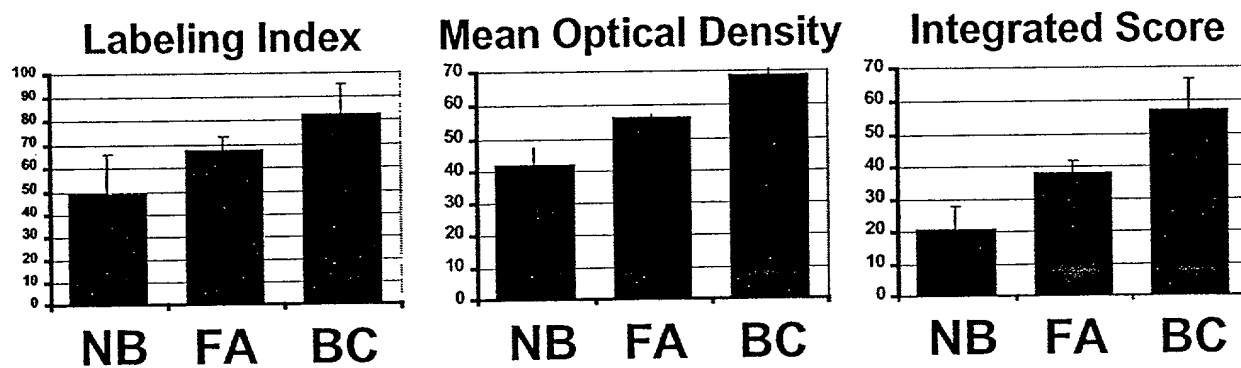


FIG. 4

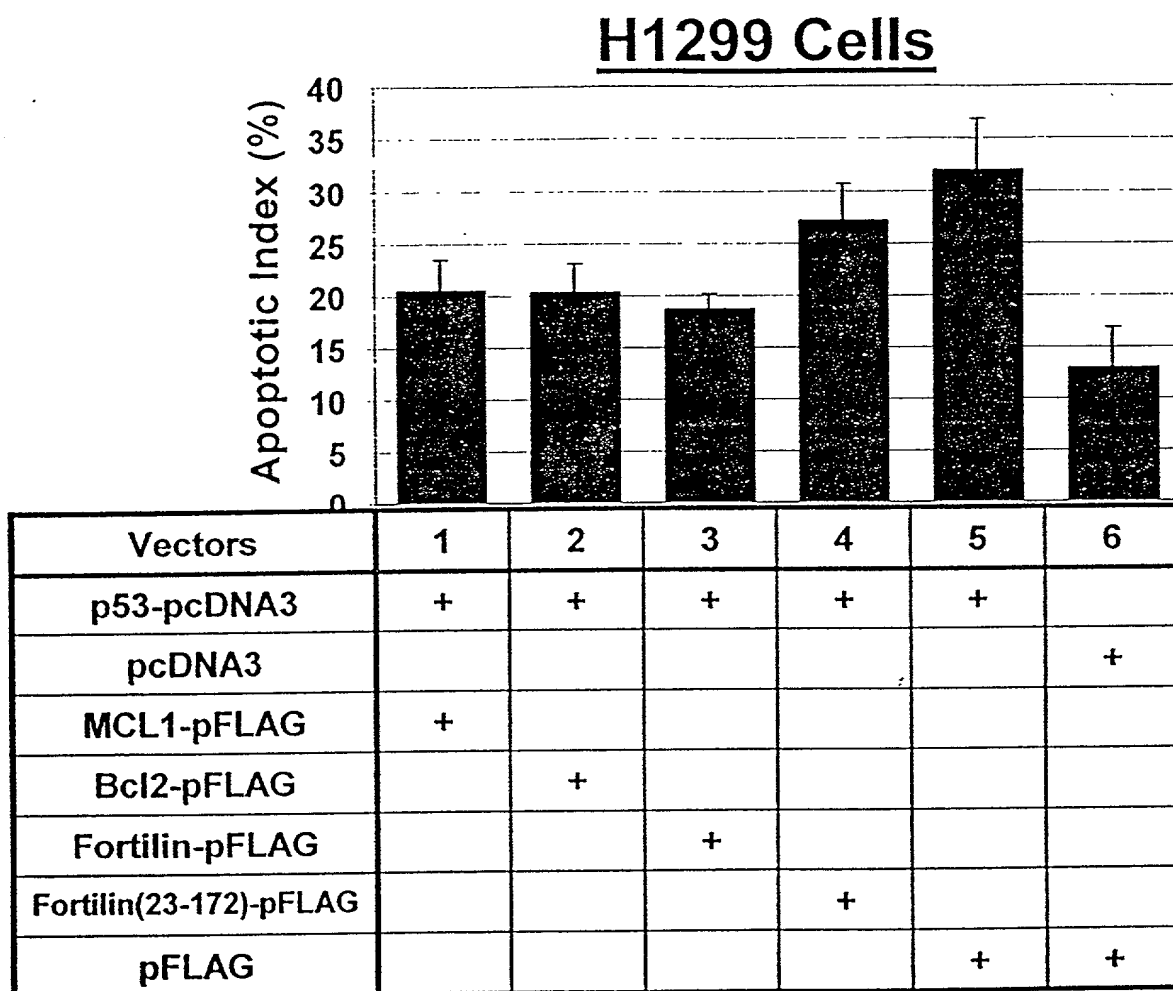
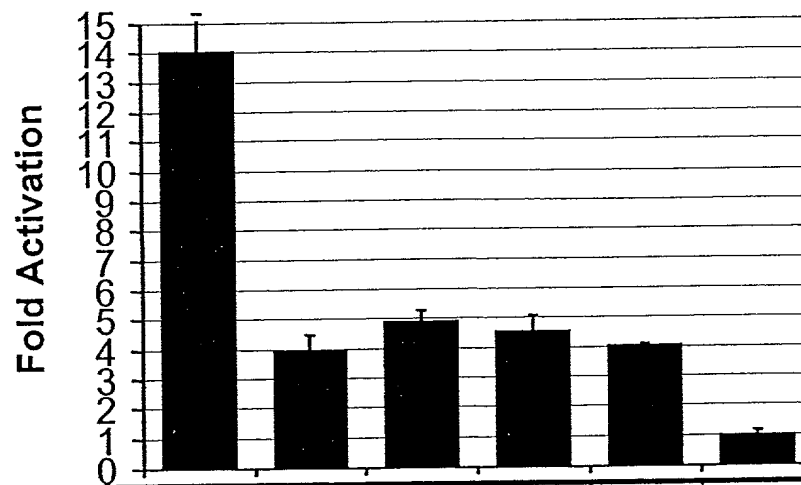


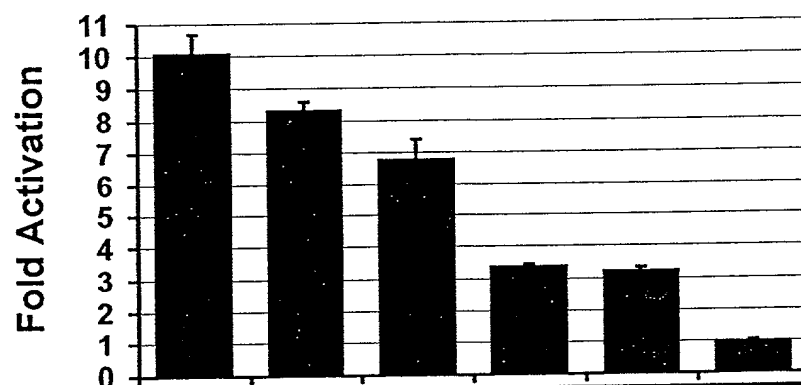
FIG. 5

FIG. 6A



Vector	1	2	3	4	5	6
pFLAG	+					+
Bcl-2-pFLAG		+				
MCL1-pFLAG			+			
Fortilin-pFLAG				+		
Fortilin(23-172)-pFLAG					+	
p53-pcDNA3	+	+	+	+	+	-

FIG. 6B



Vector	1	2	3	4	5	6
Fortilin-pFLAG	0	1.25	2.5	5	10	0
pFLAG	10	8.75	7.5	5	0	10
p53-pcDNA3	+	+	+	+	+	-

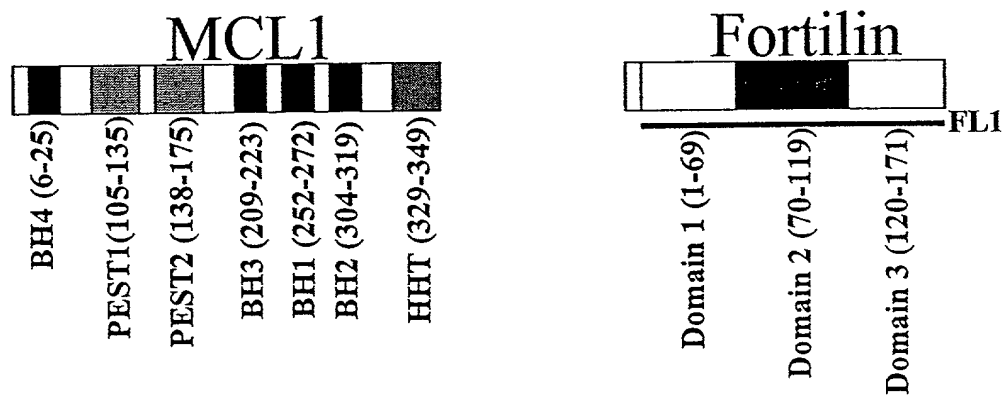


FIG. 7

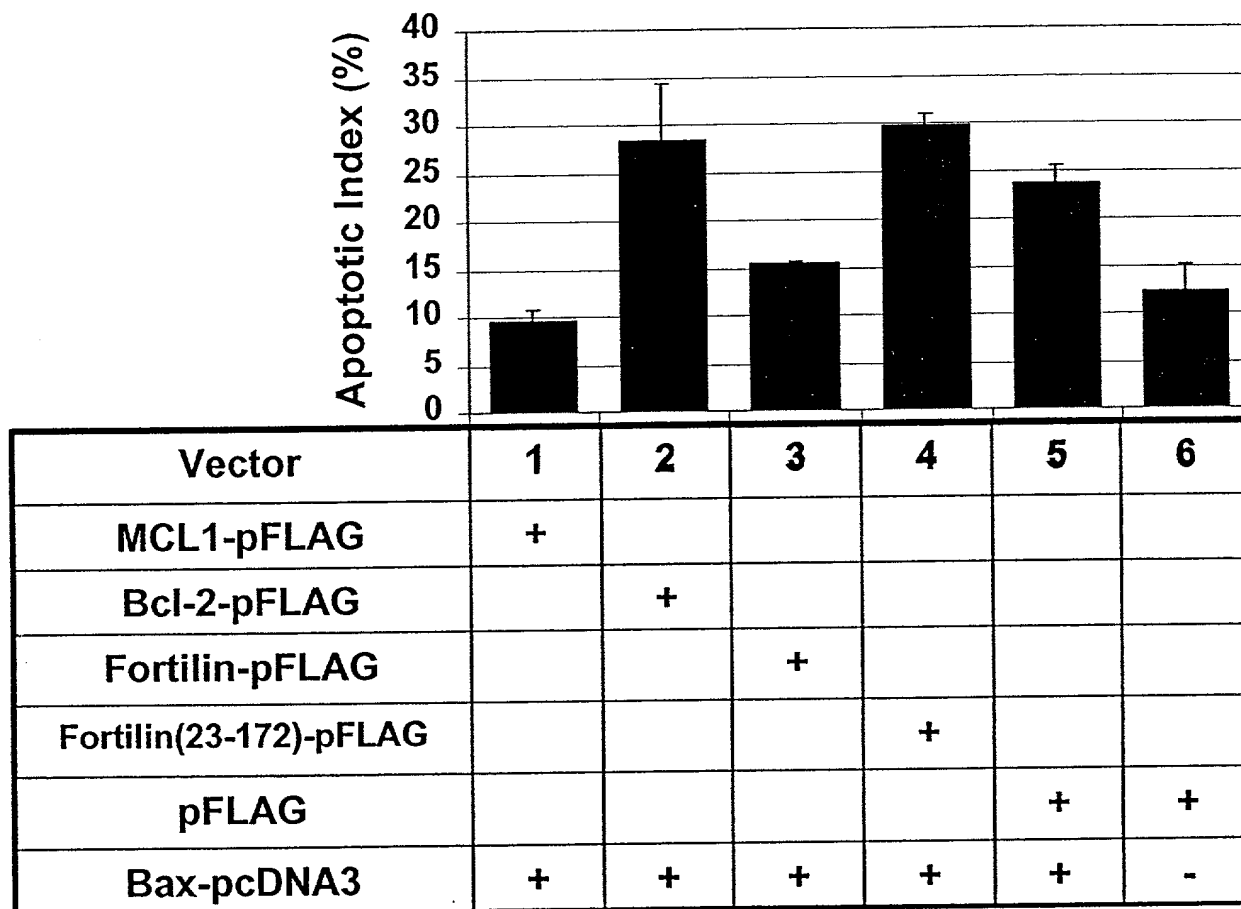


FIG. 8

FIG. 9A

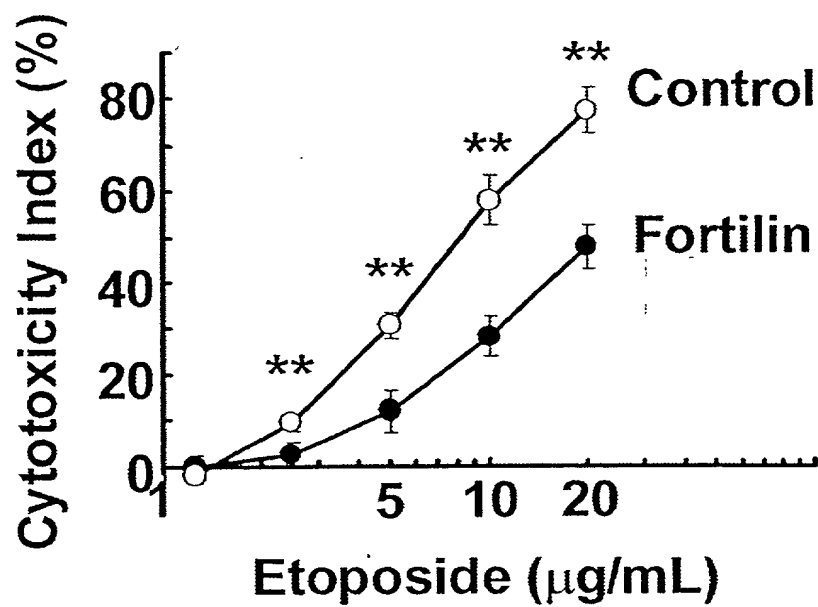


FIG.9B

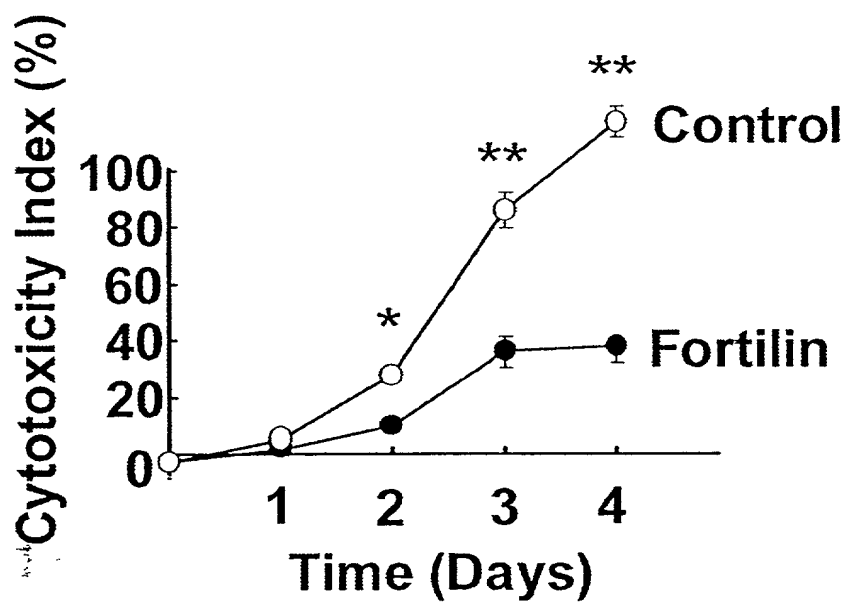


FIG. 10A

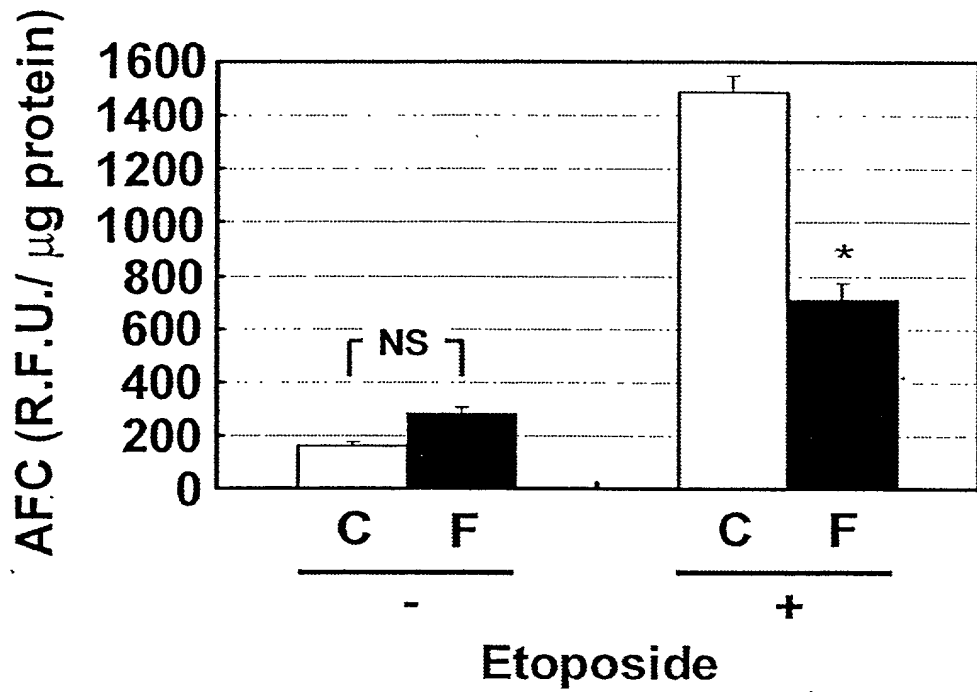
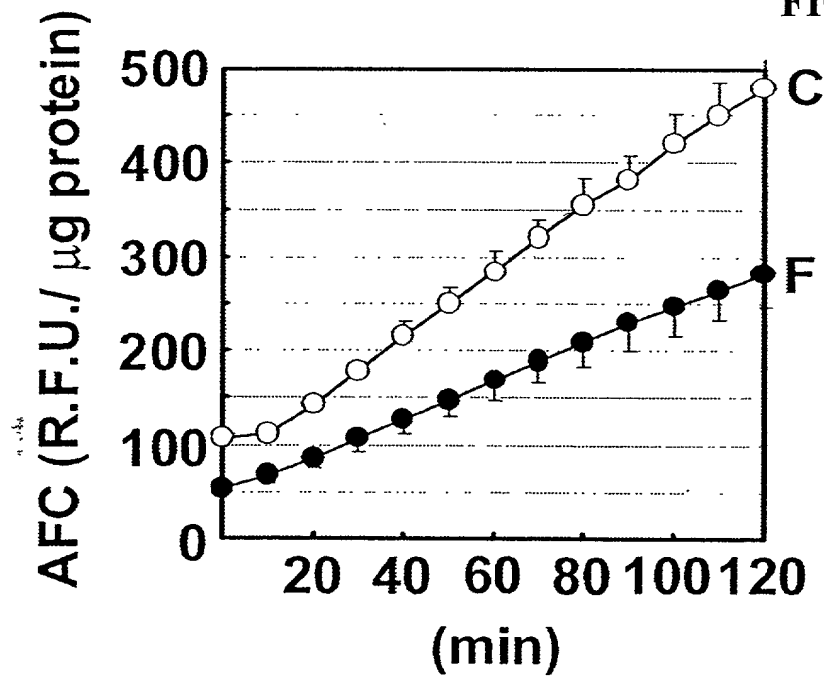


FIG. 10B



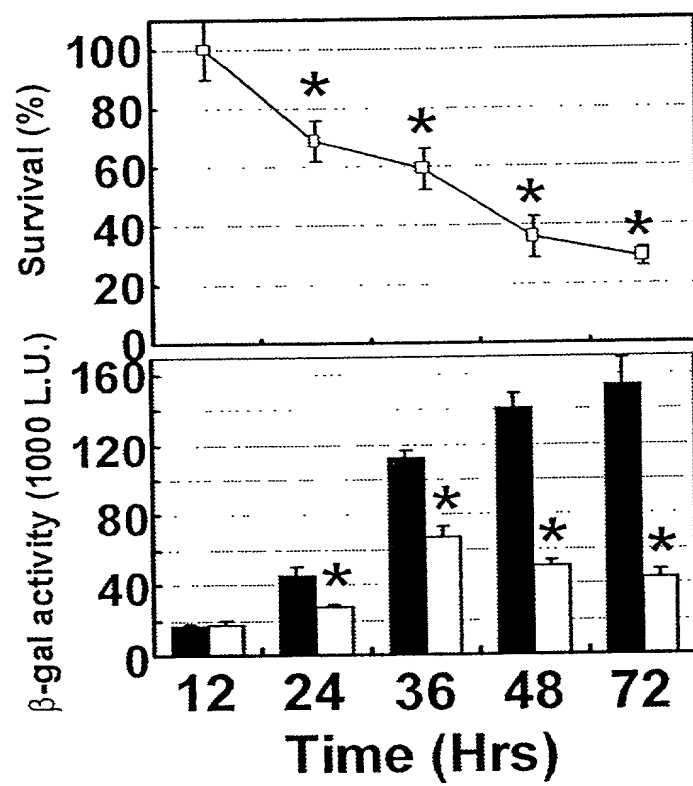


FIG. 11

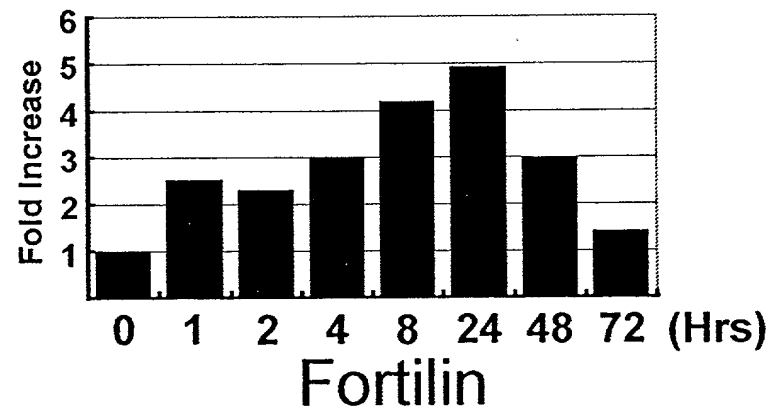
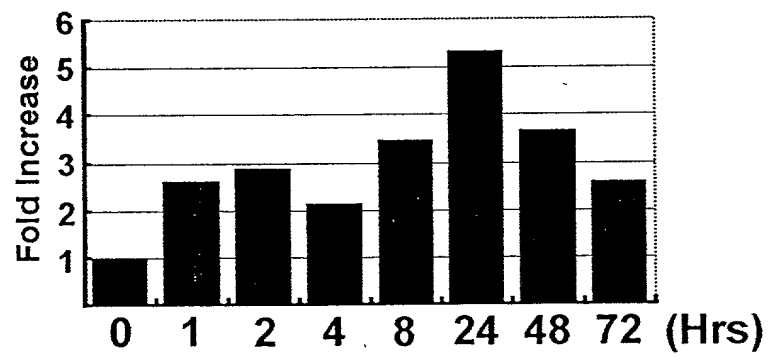


FIG. 12

**MCL1
Expression
Index**

**Fortilin
Expression
Index**

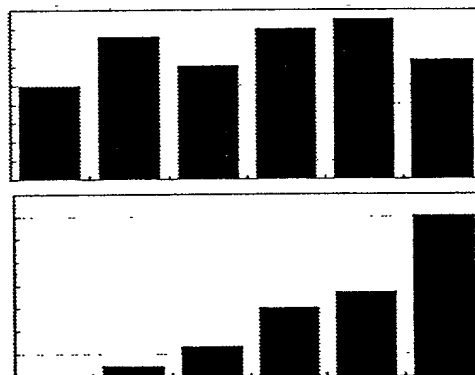


FIG. 13

	MCL1 binding
Fortilin _{wild} (1-172)	+
Fortilin _{Δ5-172}	+
Fortilin _{Δ23-172}	-
Fortilin _{Δ46-172}	-
(Empty plasmid)	-

FIG. 14

MCL1
Expression
Index

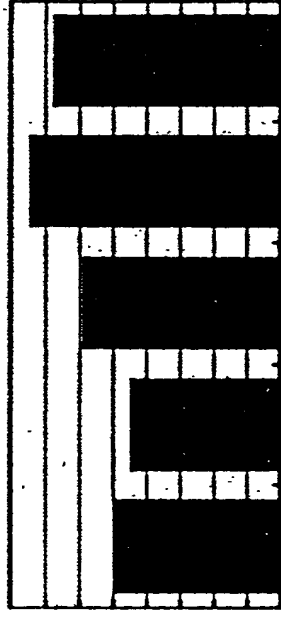


FIG. 15

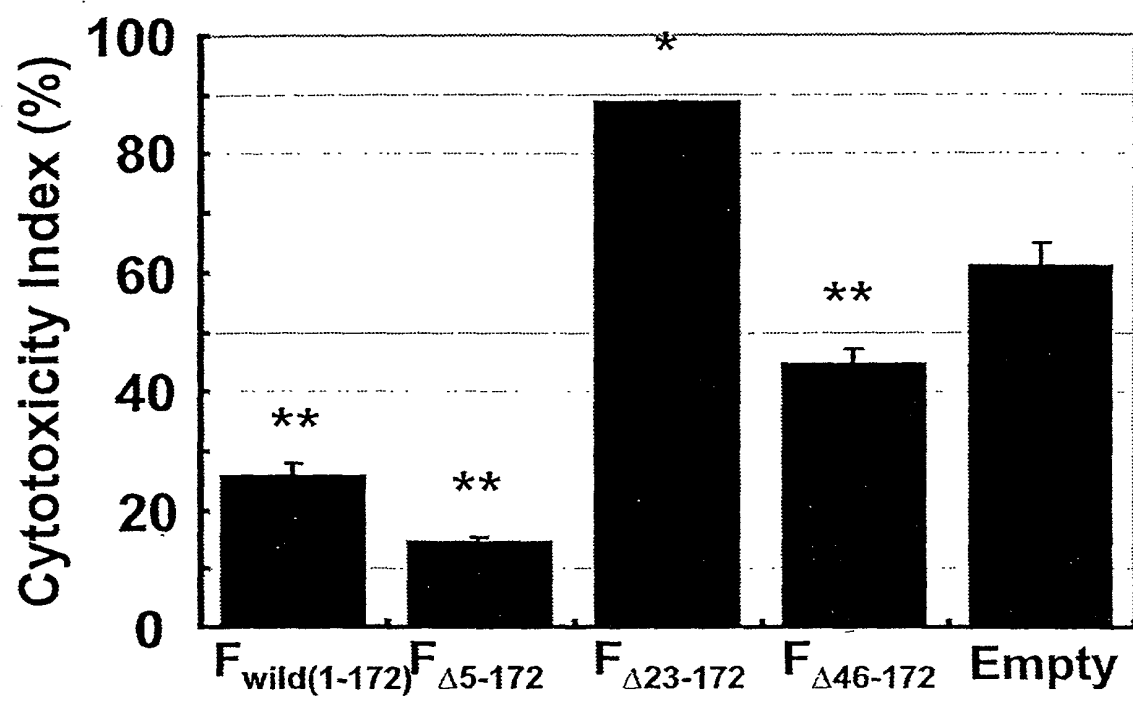


FIG. 16